



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO24322

Purchase Order Date 5/23/2014

PO Print Date 5/23/2014

Page Number 1 of 2

Order From :

VU-BEA001

Ship To : DART AEROSPACE LTD

B/E AEROSPACE INC
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED
02/14/05/23

Contact Name

Vendor Phone 305-925-2600

Ship To Contact

Ship To Phone

Ship Via: FedEx PI collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	MS24693-S7	Screw	5/27/2014 Yes 5/27/2014	FN	100.00 Each	\$0.15	\$15.00
Line Total:							\$15.00
2	MS20600-AD4W3	Cherry Rivets	5/27/2014 Yes 5/27/2014		500.00 Each	\$0.12	\$60.00
Line Total:							\$60.00
3	71500-40	AN814-6D	5/27/2014 Yes 5/27/2014		12.00 Each	\$2.25	\$27.00

2129 278

14/10/12

Note:

5/23/2014

PERMASWAGE

PERMASWAGE - Nelson Aerospace
A Designed Metal Connections, Inc. Company
10310 Norris Avenue
Pacoima, CA 91331
Ph: 818-686-0900
Fax: 818-686-0181

Pack Slip: 43312

Sales Order: 18287

Page: 1 of 1

**Customer
Packing Slip**

Ship To:

B/E AEROSPACE CONSUMABLES MANAGEM
9835 NW 14TH ST
MIAMI FL 33172
USA

Verify AES requirements prior to shipment.

Sold To:

B/E AEROSPACE CONSUMABLES MANAG
PO BOX 025263
MIAMI FL 33102-5263
USA

Verify AES requirements prior to shipment.

Fax: 305-507-7194

Ship Date: 3/25/2013

Ship Via: FEDEX GROUND

F.O.B.: EX WORKS

Cust P.O.: 0ERE52

Salesperson: JIM THOMPSON

PO Line	Planned Qty	Shipped Qty	Part Number Description	Rev	Lot Number
------------	-------------	-------------	----------------------------	-----	------------

FEDEX GRD # 0331-0149-0

RELEASE # 4LOY0ERE52
3,000

3,000

AN814-6D
PLUG

14 00025304-27077

Sale Order / Line / Release: 18287 / 2 / 1

Customer PO Number: 0ERE52

Certificates Required:

Standard Certification: No
Full Certifications: Yes

First Article Inspection: No
Chemical/Physical: No

Material Certificate: No
FAIR per AS9102: No

5 CTNS 15x15x10 18 LBS EACH

AN, MS, AS, NAS and other industry standard parts controlled by ECCN 9A991 and HTS 8803.30.00.00

Products listed have not been exposed to mercury or mercury compounds during the manufacturing process.

!! MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY PERMASWAGE -NELSON AEROSPACE SALES @ 818-686-0900 !!

WE HERBY CERTIFY THAT ALL PROVISIONS OF THE FAIR LABOR STANDARDS ACT ON 6/25/83 AS AMENDED HAVE BEEN FULLY COMPLIED WITH IN THE MANUFACTURE, PRODUCTION OR PURCHASE OF GOODS LISTED HEREON. ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE. ALL PAST DUE ACCOUNTS SHALL BEAR INTEREST AT THE RATE OF 12% PER MONTH (18% PER ANNUM).

Certification of Conformance

NELSON AEROSPACE WARRANTS THAT THE ITEMS OF THIS SHIPPER WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP AND, AS SET FORTH ON THE MATERIAL CERTIFICATION FORM, ACCOMPANYING THE ITEMS OF THIS INVOICE, ARE IN CONFORMITY WITH CONTRACT REQUIREMENTS AND SPECIFICATIONS, GOVERNMENT OR OTHERWISE. NELSON AEROSPACE DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND OF THE FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY OF NELSON AEROSPACE IS EXPRESSLY LIMITED TO REPLACEMENT OF ANY ITEM WHICH IS REJECTED BECAUSE OF A DEFECT IN MATERIAL OR WORKMANSHIP. SUCH REPLACEMENT SHALL CONSTITUTE SATISFACTION OF ALL LIABILITY NELSON AEROSPACE MAY HAVE IN CONNECTION WITH SUCH ITEM, WHETHER LIABILITY IS BASED UPON CONTRACT RIGHTS, NEGLIGENCE OR OTHERWISE, AND IN NO EVENT SHALL NELSON AEROSPACE BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. FURTHER, NELSON AEROSPACE MUST BE NOTIFIED OF A REJECTION OF AN ITEM WITHIN 30 DAYS AFTER RECEIPT BY THE CUSTOMER.

Country of Origin: MADE IN THE USA

BY RECEIVING DELIVERY OF THE GOODS COVERED BY THIS PACKING SLIP, BUYER EXPRESSLY ASSENTS TO THE TERMS AND CONDITIONS SET FORTH.


Manager of Quality Assurance or Designee



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24322

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
3	12	EA	AN814-6D		00025304-27077	NELSON AEROSPACE/PERM 52930			


Jason Lewis
Vice President of Quality

05/23/14

Receiving Report

Date: 12/10/24

Batch No: 1129278

Supplier: BEALCO

Dart P/O: 24322

Packing Slip: Yes ☒ No ☒
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒
 New Supplier Yes ☐ No ☒

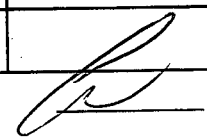
Release Note Attached: Yes ☒ No ☒ N/A ☐
 Waybill Attached: Yes ☐ No ☒
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC18 Inspection ☐ N/A ☒
 Work Order ☐ N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12



Production/Admin:

Date _____
 Received/Costing _____
 Initial _____

Location _____

10:32AM 00025304-27077 AN814-6D 14 CEPT 226,333 03/12/2013 Unchanged

JENCO PLATING INC

Nadcap

9536 Rush Street
South El Monte

CA 91733

SHIPPER/C of C

TEL: (626)443-6705

FAX: (626)443-5133

Nadcap

INVOICE

SHIPPER NO.

53473

Bill
To:

NELSON AEROSPACE

10310 NORRIS AVE.

Ship

To:

10310 NORRIS AVE.

PACOIMA

CA 91331

PACOIMA

CA 91331

DATE SHIPPED	SHIPPED VIA	TERMS	JOB NO.	PURCHASE ORDER NO.
3/8/2013			00025304	28934

ITEM	QTY ORDERED	PART NUMBER / DESCRIPTION	REVISION	QTY SHIPPED
1	3.660	AN814-6D PLUG LOT# 00025304-27077		3,660

ANODIZE PER MIL-A-8625F, AMEND 1, TYPE II
CLASS 2 COLOR BLUE WITH DUPLEX SEAL

DURABILITY FINISH INSPECTION ACCORDANCE
PER AS4841 PARA 4.4.4. 22 PCS



This is to Certify, All goods delivered
do not come in direct contact with mercury,
mercury compounds or with any mercury
containing device in our facility.

WE CERTIFY THAT, EXCEPT AS OTHERWISE STATED, THE LISTED PARTS HAVE BEEN PROCESSED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NOTED PURCHASE ORDER/SPECIFICATION(S). RECORDS ARE ON FILE AND AVAILABLE FOR EXAMINATION.

Alfred [Signature]

QUALITY CONTROL
MANAGER

BRALCO METALS B I L L O F L A D I N G

No: 43 25119

Ship From:

Ship Date 03Dec12 at 0:14 From FNO

Probill

Via

FOB

Frt OUR TRUCK

Route 1-304 Manifest

Vhcle Trailer

Slp KELLY QUAN

Sold To: (601010)

NELSON AEROSPACE, INC.

ATTN: ACCOUNTS PAYABLE

10310 NORRIS AVENUE

PACOIMA CA 91331

BRALCO METALS #43

15090 NORTHAM STREET

LA MIRADA, CA 90638

Tel: 714 736-4800 Fax: 714 736-4840

Ship To: (1)

NELSON AEROSPACE, INC.

10310 NORRIS AVE.

PACOIMA CA 91331

Tel: 818-686-0900 Fax: 818 686-0181

Con

Tel 818-686-0900 Fax 818 686-0181

B I L L O F L A D I N G

1) Our Order 43 -285717- 1 Your PO # 27077

Part #

Rel # ED

ALUMINUM HEXAGON 2024 T851

13/16" X 144.0000"

DOMESTIC - ONE HEAT ONLY

RM-001 APPLIES

	Heat Number	Tag No	Quantity	PCS	Wt LBS
542735	10038812	283341	648 FT	54	444
	Balance to Ship		0 PCS	0 FT	0 LBS

	TOTAL:	Tags 1	PCS 54	LBS 444
		✓	✓	✓

NO VALBRUNA MATERIAL 304L 3/4" HEX AND UNDER
THEY DO NOT REPORT PHYSICALS TO AMS 5639 2/11TC



CUST SIGNATURE/MILL TR RECEIVED _____

DATE _____

Page: 1Continued

CUSTOMER'S COPY

BRALCO METALS B I L L O F L A D I N G

No: 43 25119

Ship From:

Ship Date 03Dec12 at 0:14 From FNO

Probill

Via

FOB

Frt OUR TRUCK

Route 1-304 Manifest

Vhcle Trailer

Slp KELLY QUAN

Sold To: (601010)

NELSON AEROSPACE, INC.

BRALCO METALS #43

15090 NORTHAM STREET

LA MIRADA, CA 90638

Tel: 714 736-4800 Fax: 714 736-4840

Ship To: (1)

NELSON AEROSPACE, INC.

Con

Tel 818-686-0900 Fax 818 686-0181

=====

B I L L O F L A D I N G

DRIVERS SIGNATURE _____

DATE _____

BDL _____/SKD _____/PKG _____/TUBE _____/BAR _____

PIECES _____/GROSS WEIGHT _____

CERTIFICATE OF CONFORMANCE

WE CERTIFY THAT THIS SHIPMENT MEETS THE CUSTOMER
PURCHASE ORDER REQUIREMENTS. ALL TEST DATA WAS
FURNISHED TO BRALCO METALS BY OUR SUPPLIER OR
RESULTED FROM TESTS PERFORMED IN A RECOGNIZED
TESTING LAB.

SIGNED _____

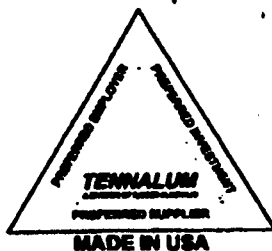
TEST REPORT COORDINATOR

THESE COMMODITIES ARE CONTROLLED FOR EXPORT BY THE
UNITED STATES GOVERNMENT UNDER THE EXPORT
ADMINISTRATION REGULATIONS.
DIVERSION CONTRARY TO U.S. LAW PROHIBITED.
PURCHASER IS RESPONSIBLE TO COMPLY WITH THESE
REGULATIONS IF THE ITEMS ARE TO BE EXPORTED FROM
THE UNITED STATES OR RE-EXPORTED FROM A FOREIGN
COUNTRY.



KAISER ALUMINUM FABRICATED PRODUCTS

Tennalum
309 Industrial Drive
Jackson, TN 38301
731-423-2811



CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: 43-105641-3		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION: Cold Finished Hexagon	
KAISER ORDER NUMBER: 683237	LINE ITEM: 3	SHIP DATE: 11/09/2012	ALLOY: 2024 ✓	TEMPER: T851 ✓	
WEIGHT SHIPPED: 1309 lbs.	QUANTITY: 158 pcs.	SN NUMBER: 34675	DIAMETER/THICKNESS: 0.8125 in.	WIDTH: 0.000 in.	LENGTH: 144.0 in.
SHIP TO: Bralco Metals 15090 Northam Street La Mirada, CA 90638 USA			SOLD TO: Bralco Metals 15090 Northam Street La Mirada, CA 90638 USA		

Test Code: 1000 AC

Actual Physical Properties

Lot Number	LONG. UTS ksi	LONG. YTS ksi	LONG. ELONG. %	COND IACS
10038812 ✓	73.3 ✓ 72.7	68.2 ✓ 67.7	10.0 ✓ 10.0	38.0 38.0

Chemical Composition, WT. % (Aluminum Remainder)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OTHERS EACH	OTHERS TOTAL	Lot
Actual	0.15 ✓	0.25 ✓	4.5 ✓	0.78 ✓	1.3 ✓	0.01 ✓	0.12 ✓	0.02 ✓			10038812
Max	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.15	
Min			3.8	0.30	1.2						

Specifications

Standard: ISO 9001, ASTM B211-12, AMS 4339A, AMS-QQ-A-225/6A ✓



CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

John Rennekamp

Plant Serial: 180300

Kaiser Order Number: 683237

Line Item: 3

Page 1 of 2

Sold to: NELSON AEROSPACE, INC. PO: 27077 Part: Order No.: 285717

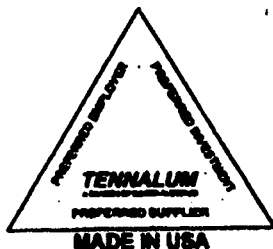
TR clerk signature: _____

Ana Ottinero

KAISER ALUMINUM

FABRICATED PRODUCTS

Tennalum
309 Industrial Drive
Jackson, TN 38301
731-423-2811



CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Miscellaneous Notes

Made in USA

This material was melted and manufactured in the USA. Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. AS9100C:2009 The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

This material meets the requirements of QQ-A-225/6E Amendment 1 (CANCELLED). This material meets the requirements of T6 temper. Material is RoHS compliant.



CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that the metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

John Rennekamp, Quality Manager

Plant Serial: 180300

Kaiser Order Number: 683237

Line Item: 3

Page 2 of 2

Sold to: NELSON AEROSPACE, INC. PO: 27077 Part: Order No.: 285717

TR clerk signature: _____



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24322

LIN#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
1	100	EA	MS24693-87		77676	CRESCENT MFG.	63020		


Jason Lewis
Vice President of Quality

05/23/14

CRESCENT MANUFACTURING

P.O. BOX 1350
BURLINGTON, CT 06013-1350
(860) 673-2591 FAX (860) 673-5973

Picking Ticket	30641
Document Date	10/31/2012
Page	1
Date Time Printed	1/8/2013 6:37:36 AM

Bill To:

B/E AEROSPACE CONSUMABLES MGMNT
PO BOX 025263
MIAMI FL 33102-5263

UNITED STATES

Ship To:

B/E AEROSPACE CONSUMABLES MGMNT
9835 NW 14TH ST
MIAMI FL 33172

UNITED STATES

NO OVER 150#+ FX NAT 018757
FED X SAVER 033101490

Customer ID		Purchase Order No.	Shipping Method	UPS Account No.		Date	
11610		OKWS50	TRUCK	UPS 363159		01/09/13	
Item Number	Description	Location	Stk Amt	Pick Qty	Qty Picked		
MS24693-S7	4-40 X .625 PH FLAT 100 STEEL CAD TYPE 2 CL3 REV 2			25.0	24.6m		
CT	CHEM & PHYS TEST REPORT			1.0	1 Box Call Complete		
SHIP 11/25/13 SURE NOT B4.							

VENDOR Wire-Tech

DIA & TYPE 1092-1018

HEAT # W27879

CRESCENT MFG

T.R. NO 77676

APW 1001297

MADE IN THE USA

Nº 77676

CERTIFICATE OF COMPLIANCE TEST REPORT

FORM REV A 11/09

MADE IN THE U.S.A.

CUSTOMER NAME B/E AEROSPACE CONSUMABLES

PART NO. MS24693-S7 REV 2

PURCHASE ORDER NO. OKWS50

INTERNAL ROUTING NO. 30641

QUANTITY TWENTY FOUR THOUSAND SIX HUNDRED

MATERIAL/SPECIFICATION .092 C1018 WIRETECH W27879

DATE 1/9/2013

PARTS CONTAINED IN THIS SHIPMENT HAVE BEEN MANUFACTURED AND INSPECTED IN ACCORDANCE WITH APPLICABLE DRAWINGS AND SPECIFICATIONS.

PHYSICAL PROPERTIES

TENSILE STRENGTH HARDNESS SCALE

- | | |
|---------------|----|
| 1) 408.0 LB T | 1) |
| 2) 419.0 LB T | 2) |
| 3) 417.0 LB T | 3) |
| 4) 416.0 LB T | 4) |
| 5) 417.0 LB T | 5) |
| 6) 415.0 LB T | 6) |
| 7) 412.0 LB T | 7) |
| 8) 415.0 LB T | 8) |

CONFORMS TO THE PROCUREMENT SPECIFICATIONS OF:

FF-S-92B

OTHER MECHANICAL TEST DATA

- ☐ MEET MAGNETIC PERMEABILITY REQUIREMENTS OF FF-S-92B, MIL-I-17214B, AND ASTM A342/A 342M TEST METHOD 3.

PARTS ARE FREE FROM MERCURY AND ASBESTOS CONTAMINATION.
VISUAL AND DIMENSIONAL INSPECTION SATISFACTORY

FINISH

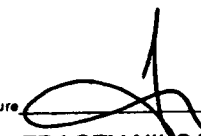
CAD TYPE 2 CLASS 3 PER AMS QQ-P-416 REV C

OTHER TESTING:

INSPECTED TO: ANSI/ASQ Z1.4 LEVEL 2

ADDITIONALLY, AN ANSI/ASQC Z 1.4 SAMPLE OF THE FINISHED FASTENERS WERE TESTED IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS. SAMPLE PARTS AND THE TEST DATA ARE IN OUR RECORDS RETENTION AREA AS OBJECTIVE EVIDENCE AND WILL BE HELD AS REQUIRED.

Signature



TRACEY NIKSA, QC TECH

Cage Code #63020

700 George Washington Turnpike, Burlington, CT 06013, U.S.A.

Telephone: (860) 673-2591 Fax: (860) 673-5973

CRESCENT MANUFACTURING OPERATING, CO.





WireTech, Inc.

6440 E. Canning Street
Los Angeles, CA 90040
Phone (323) 722-4933
Fax (323) 721-2738

SOLD TO

Crescent MFG.
c/o MML
3 Choice Road
Windsor Lock, CT 06096
USA

CERTIFICATION

WORK ORDER
094139

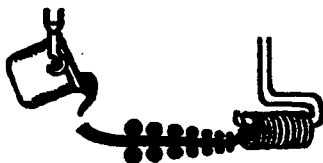
HEAT NO.
W27879
SALES ORDER / RLS
846346 / 1
ISO 9001-2000 REGISTERED



MECHANICAL TESTING
CERT # 911.01

CERT# 911.01

CUSTOMER P.O. K12-98	CUSTOMER PART	QUANTITY 2,124 Lbs	CARRIERS 2	LADING NO 00099069	SHIPMENT DATE 08/23/2012					
SPECIFICATION C471018-300920A C-1018, AKFG, CHQ WIRE, SAIP Zinc Phosphate, Lime & Stearate Coating, Size:0.091/0.093 Specifications: AIR 4127,ISSUED 2007/11										
CERTIFICATION REQUIREMENTS										
Chemical Properties										
C	Si	Mn	P	S	Cu	Ni	Cr	Mo	Al	N
.17	.10	.70	.005	.002	.04	.0047	.06	.003	.044	.0047
Physical Properties										
Mill Source IVACO										
Mechanical Properties										
TEST Tensile Strength	UNITS KSI	Results 68.7								
<p>Merchandise covered by this invoice is warranted to be free from defects in workmanship or material but not for any specific length of time, type or measure of service. No claim for allowance will be recognized unless presented in writing within 10 days time after receipt of material. Our maximum liability for any claim predicated upon defective merchandise is limited to replacement of it, or to repayment of it, or to repayment of the purchase price thereof, as we elect. Material cut to specific length or size cannot be returned for credit and request for cancellation of such orders will not be considered if manufacture has been commenced. Buyer, by acceptance of the merchandise covered by this invoice, agrees to the foregoing terms and conditions and those set forth on the reverse hereof. "The recording of false, fictitious or fraudulent statements or entries on this document may be punished as a felony under Federal statutes including Federal law, Title 18, Chapter 47."</p> <p>REPRODUCTION OF THIS CERTIFICATION IS NOT ALLOWED UNLESS IN FULL.</p> <p>Wire Tech, Inc. metallurgical laboratory is accredited in the following tests chemical analysis per ASTM E 418, mechanical testing per ASTM A 970, Rockwell hardness per ASTM E 18, metallographic mount preparation per ASTM E 3, decarburization depth per ASTM E 1577, IFI 140, inclusion rating per ASTM E 46, decarburization performed as per IFI 140.</p> <p>The reported Chemical and Physical Properties are Mill Source results. Transmitted from mill certificates. HFB(W) are hardness results performed with a 1/16" scratch ball. Unless otherwise specified, HFB and HPC results are conversions from ASTM A570 tables 1 and 2. *Test result not covered by our current ASLA accreditation. Tests which have been undertaken by a subcontractor laboratory that is not accredited are not endorsed by ASLA or covered by Wire Tech, Inc. ASLA accreditation.</p> <p>TEST RESULTS RELATE ONLY TO THE ITEMS TESTED.</p> <p>"LATEST REVISIONS OF ASTM"</p> <p>DFAR Material per Clauses 252.225-7014 ALT. 1, 252.225-7009, & 225.003(9)</p> <p>Material is free of mercury, radium, or alpha contamination.</p>										



10624 0058 **WIRETECH. INC.**
6440 E. CANNING ST. SPUR 6604
COMMERCE, CA
90040

MILL TEST CERTIFICATE

IVACO ROLLING MILLS LP

A HEICO COMPANY

P.O. BOX 322, L'ORIGNAL, ONTARIO, CANADA K0B 1K0
TEL: (613) 675-4871 FAX: (613) 675-8886

This report contains analysis data that were produced under subcontract by laboratory QIT Fer et Titane, AZLA certificate number 0429-01.

NVLAP only covers the chemistry presented within this certificate. All other data is not covered by the NVLAP accreditation.



NVLAP

Lab Code 200143-0

ATTENTION : A Stephan/M Martinez VIA : EMAIL

Date Rolled 18-Feb-2012																Date Chemical Analysis Performed 06-Feb-2012									
P.O. Number		Order Number		Heat Number		Customer Spec.				Spec Rev. No.		Customer Part No.				Billet Order		Grade		Diameter					
006778		10138409		W27879		1018AKFG				REV T 12/10/10		1018-3C055-C				326476		1018AK CHQ		5.50 mm					
Heat Analysis																									
	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	N	B	V	Ti										
Spec. Min *	.16	.65									.035														
Actual	.17	.70	.005	.002	.10	.04	.07	.06	.003	.002	.044	.0047	.0001	.004	.002										
Spec. Max*	.19	.85	.020	.020	.10	.08	.10	.10	.040	.020	.060	.0090	.0005												

This is to certify that heat number W27879 is in conformance with the required specifications.

Heat analysis obtained by test methods ASTM E415 and ASTM E1019.
*Minimum and maximum refer to the required customer specification.
This is to certify that the material is in conformance with the required specifications.
Radioactive emissions are at background levels.
This steel was produced using a fine grain steelmaking practice (6-11).

Aluminum to Nitrogen ratio = 9.362

Results of Physical Testing			
	UTS (KSI)	ROA (%)	DIA. (in)
Averages	72.82	69.54	2161

CRESCENT MFG
T.R. NO 2161

APPROVED BY: _____

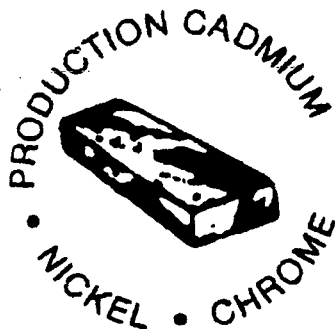
Supervisor, Chemistry Laboratory and Billet Inspection

ISSUED BY QUALITY ASSURANCE: _____

Date: 27 Feb 2012

Specification Clerk

This Certificate shall not be reproduced except in full, without the written approval of Ivaco Rolling Mills LP, a Heico Company. This certificate is not to be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.



New Method Plating Co., Inc.

QUALITY
MANAGEMENT
SYSTEM
ISO 9001:2000
AS9100 REV. B
CERTIFIED

Established 1931



43 Hammond St.
Worcester, MA 01610
Phone 508.754.2671
Fax 508.754.1981
www.newmethodplating.com

CERTIFICATE OF COMPLIANCE

COMPANY CRESCENT MFG. CO.

DATE 1/3/13

PO#

30640

QUANTITY

60,000

JOB # 4-40 x .625 PH Flat MS24693-S7

CADMIUM PLATED IN ACCORDANCE WITH AMS QQ-P-416C

Class III Type II (Clear Yellow X Black)

Hardness: NA HRC

☒ **NO BAKE**

☐ Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 8 hours.

☐ Before plating, bake at 275+/-25F for 5 hours. After plating, bake at 275+/-25F for 23 hours.

☐ Before plating, bake at 375+/-25F for 4 hours. After plating, bake at 375+/-25F for 23 hours.

Thickness Test Results

Accept ☒ Reject ☐ Min.: Spec. .0002 Read .00020 Avg. .00021

Adhesion Test Results

Accept ☒ Reject ☐

Inspected by: 

Certification

This lot has been processed, sampled, tested, and inspected in accordance with the contract and specification requirements listed above, and the plating and conversion coating complies with those contract and specification requirements. Process control data is on file and is available upon request. We certify that these parts have been processed in a mercury free environment.

Signed: 

Christopher J. Capalbo

Title: Quality Manager

Date: 1/3/13

CRESCENT MFG
T.R. NO. 77676



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172


Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO24322

LIN#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
2	500	EA	MS20600AD4W3		87620822	CHERRY AEROSPACE SAN	11815		


Jason Lewis
Vice President of Quality

05/23/14



CHERRY®
AEROSPACE

SPS Fastener Division, a PCC Company

Cherry Aerospace
1224 East Warner Avenue
Post Office Box 2157
Santa Ana, CA 92707-0157
USA



PACKING LIST

Order No: S0321781
Order Date: 04/30/08
Print Date: 06/21/12

Page: 1



Sold-To: 10015341

Ship-To: 19000244

S O L D T O	B/E AEROSPACE
	PO BOX 025263
	MIAMI, FL 33102-5263
	USA

S H I P T O	B/E AEROSPACE INC C.M.
	10000 N.W. 15TH TERRACE
	MIAMI, FL 33172
	USA

Salesperson (s):110

Purchase Order: 0FA567

Credit Terms: Net 30
Net 30

Ship Via: YRC

FOB: Origin - Collect

Remarks:

IF UNDER 150# SHIP FEDEX GROUND COLLECT ACCOUNT# 0331-0149-0
IF OVER 150# SHIP FED EX NATIONAL ACCOUNT# 018757 - DO NOT INSURE
DO NOT PREPAY AND ADD TO ANY OF THE ABOVE METHODS
DO NOT SHIP EARLIER THAN TWO (2) WEEKS PRIOR TO DUE DATE, UNLESS SPECIFIED.

BRITISH AEROSPACE APPROVAL# BAe/AG/30158/MAA to BAe/AG/QC/SC1 PART 3
AIRBUS APPROVAL# 30114

GOODS OF UNITED STATES ORIGIN

FASTENERS ECCN: 9A991d SCHEDULE B# 8803300010
TOOLS ECCN: EAR99 SCHEDULE B# 8467290095

Ln	Item Number	Site T Location	Lot/Serial	Qty Open Qty to Ship	UM	Promised Shipped
1	CR9163-4-03	1600			EA	08/01/12
	Customer Item: MS20600AD4W3					
		A0503	87620821	24490.0		()
		E0703	87620820	20110.0		()
		G0902	87620822	24500.0		()

TEST REPORTS ENCLOSED = DO NOT DESTROY

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited

Packing List



CHERRY®
AEROSPACE

SPS Fastener Division, a PCC Company

Cherry Aerospace
1224 East Warner Avenue
Post Office Box 2157
Santa Ana, CA 92707-0157
USA



PACKING LIST

Order No: S0321781

Page: 1

Order Date: 04/30/08

Print Date: 06/21/12



Sold-To: 10015341

Ship-To: 19000244

S O L D T O	B/E AEROSPACE
	PO BOX 025263
	MIAMI, FL 33102-5263
	USA

S H I P T O	B/E AEROSPACE INC C.M.
	10000 N.W. 15TH TERRACE
	MIAMI, FL 33172
	USA

Salesperson (s):110

Purchase Order: 0FA567

Credit Terms: Net 30

Ship Via: YRC

Net 30

FOB: Origin - Collect

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IF OVER 150# SHIP FED EX NATIONAL ACCOUNT# 018757 - DO NOT INSURE

DO NOT PREPAY AND ADD TO ANY OF THE ABOVE METHODS

DO NOT SHIP EARLIER THAN TWO (2) WEEKS PRIOR TO DUE DATE, UNLESS SPECIFIED.

BRITISH AEROSPACE APPROVAL# BAe/AG/30158/MAA to BAe/AG/QC/SC1 PART 3

AIRBUS APPROVAL# 30114

GOODS OF UNITED STATES ORIGIN

FASTENERS ECCN: 9A991d SCHEDULE B# 8803300010

TOOLS ECCN: EAR99 SCHEDULE B# 8467290095

Ln	Item Number	Site T Location	Lot/Serial	Qty Open Qty to Ship	UM	Promised Shipped	
1	CR9163-4-03	1600			EA	08/01/12	
	Customer Item: MS20600AD4W3						
		A0503	87620821	24490.0		()	
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		G0902	87620822	24500.0		()	

TEST REPORTS ENCLOSED = DO NOT DESTROY

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law is prohibited

CERTIFICATION

ATTENTION: PURCHASING DEPARTMENT

The material and/or parts we are furnishing in this shipment (as shown above) on the subject Purchase Order conform to the order and applicable specifications. Evidence that the material and/or parts meet the specifications and results of all tests for each lot affected will be in our files and will be available for your inspection at any reasonable time.

Quality Assurance Representative

Signed

DAWN MILLER



CHERRY AEROSPACE
SPS Fastener Division, a PCC Company



Chemical Processing
Heat Treating
ISO/IEC 17025
Material Testing Lab

1224 East Warner Avenue
Santa Ana, CA 92707-0157

Final Inspection & Test Report Cherry® Rivet

An ISO9001 and AS9100 registered company. OASIS #6111041606

Part Numbers	Rev	Proc. Spec.	Rev	Lot I.D. No.:	87620822
CR9163-4-03	J	MIL-R-7885	D2	Lot Size:	25,000
				MFG. Date:	May 29, 2012

ASSEMBLY DATA

TYPE	ID #	CERT #	MATERIAL	FINISH	LUBE
Rivet	87620822	A69236	2117 ALUM ALLOY	MIL-C-5541	Par-90
Stem	87624344	A68909	2017 ALUM ALLOY	MIL-C-5541	Par-90

W.O. #: 5469222

Final Lube: WAX

QUALITY CONFORMANCE/ACCEPTANCE RESULTS

MIN REQ'D	INSTALLED SHEAR		SPINDLE RETENSION	
	370		15	
SAMPLE SIZE	9		9	
SPECS			UnLocked	
RESULTS	498	508	76	49
	497		79	
	494		71	
	496		65	
	501		70	
	519		69	
	524		65	
LOAD VALUES IN POUNDS	515		73	

<u>PCS.</u>	<u>ITEM</u>	<u>STATUS</u>	<u>PCS.</u>	<u>ITEM</u>	<u>STATUS</u>
20	EXAMINATION	PASS	13	INSTALLATION (Min and Max Grips)	PASS

Comments:

Blind Fastener

Tr. Rev.: 1
Rev. Date: 6/23/2012

Inspector
I Reyes



Insp. Control #:

The parts contained in this shipment have been manufactured and inspected in accordance with TSO-C148. The conditions and tests required for TSO approval of this article are minimum performance standards. Aircraft fasteners approved under this TSO are not necessarily interchangeable with other aircraft fasteners approved under this TSO. Fasteners of similar dimensional properties may have widely varying performance and metallurgical properties. Substitution of parts may only be done if acceptable to or approved by the Administrator.

This test report shall not be reproduced except in full, without the written approval of the laboratory.
The recording of false, fictitious, or fraudulent statement or entries on the certificate may be punished as a felony under Federal law.

KAISER ALUMINUM

SANTA ANA, CA. 92707-0157

CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		OTHERS	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
	2117		0.80		0.70	2.20	3.00		0.20	0.20	0.50		0.10	0.05	0.15
		NICKEL		ZINC		TITANIUM		LEAD		BISMUTH					
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
				0.25											
ALUMINUM REMAINDER															

**KAISER
ALUMINUM
FABRICATED PRODUCTS**

Kaiser Aluminum & Chemical
600 Kaiser Drive
Heath, OH 43056-1088
740-522-1151

Best in Class

CERTIFIED TEST REPORT
<http://Certs.KaiserAluminum.com>

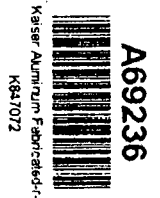
Specifications

QQ-A-430 REV C

Miscellaneous Notes

Made in USA

Mercury is not a normal contaminant in aluminum alloys. Neither mercury nor any of its compounds were utilized by Kaiser Aluminum in the manufacture of this material. Actual (Act) chemical composition is from representative samples taken during the ingot casting process. Independent chemical analysis will vary from these values because of natural variation in the process and testing error. This test report shall not be reproduced, except in full, without the written approval of Kaiser Aluminum. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punished as a felony under federal law. Chemical analysis performed in accordance with ASTM E 1251-07. The Newark facility is AS9100B:2004 approved. The Newark Laboratory is NADCAP approved for chemical testing (OES).



JAN 06 2012



CERTIFICATION

Kaiser Aluminum & Chemical Corp Inc. ("Kaiser") hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales order acknowledgement form. Any warranty is limited to that shown on Kaiser's standard general terms and conditions.

Warren Marcucci, Technical Manager

Warren Marcucci

Plant Serial: 17419

Kaiser Order Number: 624531814

Line Item: 1

KAISER ALUMINUM

SHIP TO:

SOLD TO:

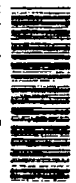
CHERRY AEROSPACE,SPS TECH LLC
ATTN ACCTS PAYABLE
P. O. BOX 2157
SANTA ANA, CA. 92707-0157

LOT NUMBER	# OF TESTS	ULTIMATE		YIELD		% ELONGATION	
		STRENGTH K.S.I.		STRENGTH K.S.I.			
		Min	Max	Min	Max		
K846795	2	72.29	72.82				

DEC 06 2011



557075



A68909

CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		OTHERS	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
	2017	0.20	0.80		0.70	3.50	4.50	0.40	1.00	0.40	0.80		0.10	0.05	0.15
		NICKEL		ZINC		TITANIUM		LEAD		BISMUTH					
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
					0.25		0.15								
		ALUMINUM REMAINDER													

KAISER ALUMINUM

FABRICATED PRODUCTS

Kaiser Aluminum & Chemical
600 Kaiser Drive
Heath, OH 43056-1088
740-522-1151

Best in Class

CERTIFIED TEST REPORT
<http://Certs.KaiserAluminum.com>

Specifications

QQ-A-430 REV C

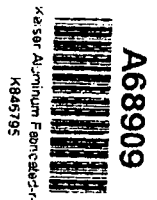
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Made in USA

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DEC 06 2011



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Warren Marcucci, Technical Manager

Warren Marcucci

Plant Serial: 16263

Kaiser Order Number: 624531025

Page 2 of 2

Line Item: 1

OFA567 0

69100 07/14/12

MS20600AD4W3

TOTAL O/O: 500

WHSE ONHAND: 396885

MINIMUM: 75000

MAXIMUM: 150000

MIAMI BACKORDERS: 500

05/07/12 001973 AIR CARGO

27966

500



08/10/12 8379S4

(FBO/MRO

Warehouse 2: Parts Falling below a 6 Month Trend Quantity

Part No.	Description	Quantity	UOM
MS20600AD4W3	RIVET	32,060	Pcs

KAISER ALUMINUM FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Certs.KaiserAluminum.com>

Kaiser Aluminum & Chemical
600 Kaiser Drive
Heath, OH 43056-1088
740-522-1151

CUSTOMER PO NUMBER: K-1020-ALLFAST		CUSTOMER PART NUMBER: 6Z37LB		PRODUCT DESCRIPTION: ALY-JUMBO	
KAISER ORDER NUMBER: 624531025	LINE ITEM: 1	SHIP DATE: 04/11/2011	ALLOY: KN17	TEMPER: O	
WEIGHT SHIPPED: 20564 lbs.	QUANTITY: 88 pcs.	B/L NUMBER: 8843	DIAM/DAF/THKNS: 0.375 in.	WIDTH: 0.000 in.	LENGTH: 0.0 in.
SHIP TO: FLORENCE 1547 HELTON DRIVE FLORENCE, AL 35630			SOLD TO: FLORENCE 1547 HELTON DRIVE FLORENCE, AL 35630		

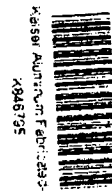
Test Code: 8000

Actual Physical Properties

Lot No.	No. Tests		WGU ksi	WGY ksi
846795	3	MIN	25.0	11.8
		MAX	25.2	12.3

Chemical Composition, WT. % (Aluminum Remainder)

Lot		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Zr
Cast/Drop										
ChemID										
846795										
68-1F2	Act.	0.25	0.22	3.9	0.44	0.52	0.00	0.02	0.01	0.00
159318										
Chemical	Min	0.20		3.5	0.40	0.40				
Limits	Max	0.40	0.30	3.90	0.60	0.60	0.04	0.045	0.15	0.05
	Others	Each	0.05	Max		Total	0.15	Max		



A68909

DEC 06 2011

CERTIFICATION

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Warren Marcucci, Technical Manager

Warren Marcucci

Plant Serial: 16263

Kaiser Order Number: 624531025

Page 1 of 2

Line Item: 1

KAISER ALUMINUM FABRICATED PRODUCTS

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CERTIFIED TEST REPORT

<http://Certs.KaiserAluminum.com>

Kaiser Aluminum & Chemical
600 Kaiser Drive
Heath, OH 43056-1088
740-522-1151

CUSTOMER PO NUMBER: FLO-1041-ALLFAST		CUSTOMER PART NUMBER: 6G43L1		PRODUCT DESCRIPTION: ALY-JUMBO	
KAISER ORDER NUMBER: 624531814	LINE ITEM: 1	SHIP DATE: 06/08/2011	ALLOY: 2117	TEMPER: O	
WEIGHT SHIPPED: 5057 lbs.	QUANTITY: 22 pcs.	B/L NUMBER: 9427	DIAM/DAF/THKNS: 0.4375 in.	WIDTH: 0.000 in.	LENGTH: 0.0 in.
SHIP TO: FLORENCE 1547 HELTON DRIVE FLORENCE, AL 35630			SOLD TO: FLORENCE 1547 HELTON DRIVE FLORENCE, AL 35630		

Test Code: 8000

Actual Physical Properties

Lot No.	No. Tests	WGU	ksi
847072	1	MIN	22.1
		MAX	22.1

Chemical Composition, WT. % (Aluminum Remainder)

Lot	Cast/Drop	ChemID	Si	Fe	Cu	Mn	Mg	Cr	Zn
847072									
95-5F2	Act.		0.46	0.40	2.7	0.17	0.33	0.06	0.13
161625									
Chemical	Min				2.2		0.20		
Limits	Max		0.8	0.7	3.0	0.20	0.50	0.10	0.25
		Others	Each	0.05	Max		Total	0.15	Max

Kaiser Aluminum Fabricated
K847072



A69236

CERTIFICATION JAN 06 2012



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Warren Marcucci, Technical Manager

Warren Marcucci

Plant Serial: 17419

Kaiser Order Number: 624531814

Page 1 of 2

Line Item: 1



CHERRY[®] AEROSPACE

SPS Resistor Division, a PCC Company



Accredited

Nadcap[™]

Chemical Processing

Heat Treating

ISO/IEC 17025

Material Testing Lab

Final Inspection & Test Report Cherry[®] Rivet

1224 East Warner Avenue
Santa Ana, CA 92707-0157

An ISO9001 and AS9100 registered company. OASIS #6111041606

Lot I.D. No.: 87620822

Rev: 1

Customer Parts List

<u>Customer Part Number</u>	<u>Rev</u>	<u>Proc. Spec.</u>	<u>Rev</u>
MS20600AD4W3	1	MIL-R-7885	D2